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# Customer information packet

## ECP83771T-4

10HP, 3475RPM, 3PH, 60HZ, 215T, 0742M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
XP Class and Group	CLIGP A,B,C,D
XP Division	Division II
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	11.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.3 a

## Part detail

Revision	AD
Type	AC
Mech. spec.	07K629
Base	
Status	PRD/A
Elec. spec.	07WGY930
Layout	07LYK629
Eff. date	08-29-2022
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	01-14-2012

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 14 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0742M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	19.50 IN
<b>Power Factor</b>	91
<b>Product Family</b>	Super-E Chemical Processing
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.375 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3500 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**XP Temp Code**

**T3C**

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**Nameplate**

**NP3235**

<b>CAT.NO.</b>	ECP83771T-4					
<b>SPEC.</b>	07K629Y930G1					
<b>HP</b>	10 TE	<b>IP</b>	56			
<b>VOLTS</b>	460					
<b>AMPS</b>	11.3					
<b>R.P.M.</b>	3500					
<b>FRAME</b>	215T	<b>HZ</b>	60	<b>PH</b>	3	
<b>SER.F.</b>	1.15	<b>CODE</b>	H	<b>DES.</b>	B	<b>CLASS</b> F
<b>RATING</b>	40C AMB-CONT					
<b>SN</b>						
<b>DE</b>	6307	<b>ODE</b>	6307			
<b>NEMA NOM. EFF.</b>	91	<b>P.F.</b>	91			
<b>GUAR. MIN. EFF.</b>	89.5	<b>CC</b>	010A			
<b>T. CODE</b>	T3C	<b>TEMP=</b>	160			

**NP3186**

<b>SPEC.</b>	07K629Y930G1		
<b>ABMA DE BRG</b>	35BC03X30X		
<b>ABMA ODE BRG</b>	35BC03X30X		
<b>GREASE</b>	POLYREX EM		
<b>MOTOR WEIGHT</b>	225	<b>ROTOR BARS</b>	28
		<b>STATOR BARS</b>	36
<b>MAX. R.P.M.</b>	5400	<b>MAX. KVAR</b>	N/A
<b>INV.TYPE</b>	PWM		
<b>T=</b>	160		
<b>CHP</b>	60	<b>TO</b>	90
<b>CT</b>	6	<b>TO</b>	60
<b>VT</b>	3	<b>TO</b>	60
<b>HTR-VOLTS</b>	N/A	<b>HTR-AMPS</b>	N/A
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	N/A

**AC Induction Motor Performance Data**

Record # 47355

Typical performance - not guaranteed values

Winding: 07WGY930-R013		Type: 0742M		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	10	Full Load Torque	14.8 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	11.3	Breakdown Torque	67.3 LB-FT		
R.P.M.	3500	Pull-up Torque	22.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	29 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	81 A
Service Factor (S.F.)	1.15	No-load Current	3.11 A		
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.791 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	50°C	
S.F. Amps			Temp. Rise @ S.F. Load	62°C	
			Locked-rotor Power Factor	30.3	
			Rotor inertia	0.383 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	81	88	89	91	90	91
Efficiency	89.1	92.2	92.3	91.6	90.3	89.1	90.9
Speed	3576	3554	3530	3504	3474	3442	3486
Line amperes	4.08	6.21	8.61	11.3	14.1	17.4	13

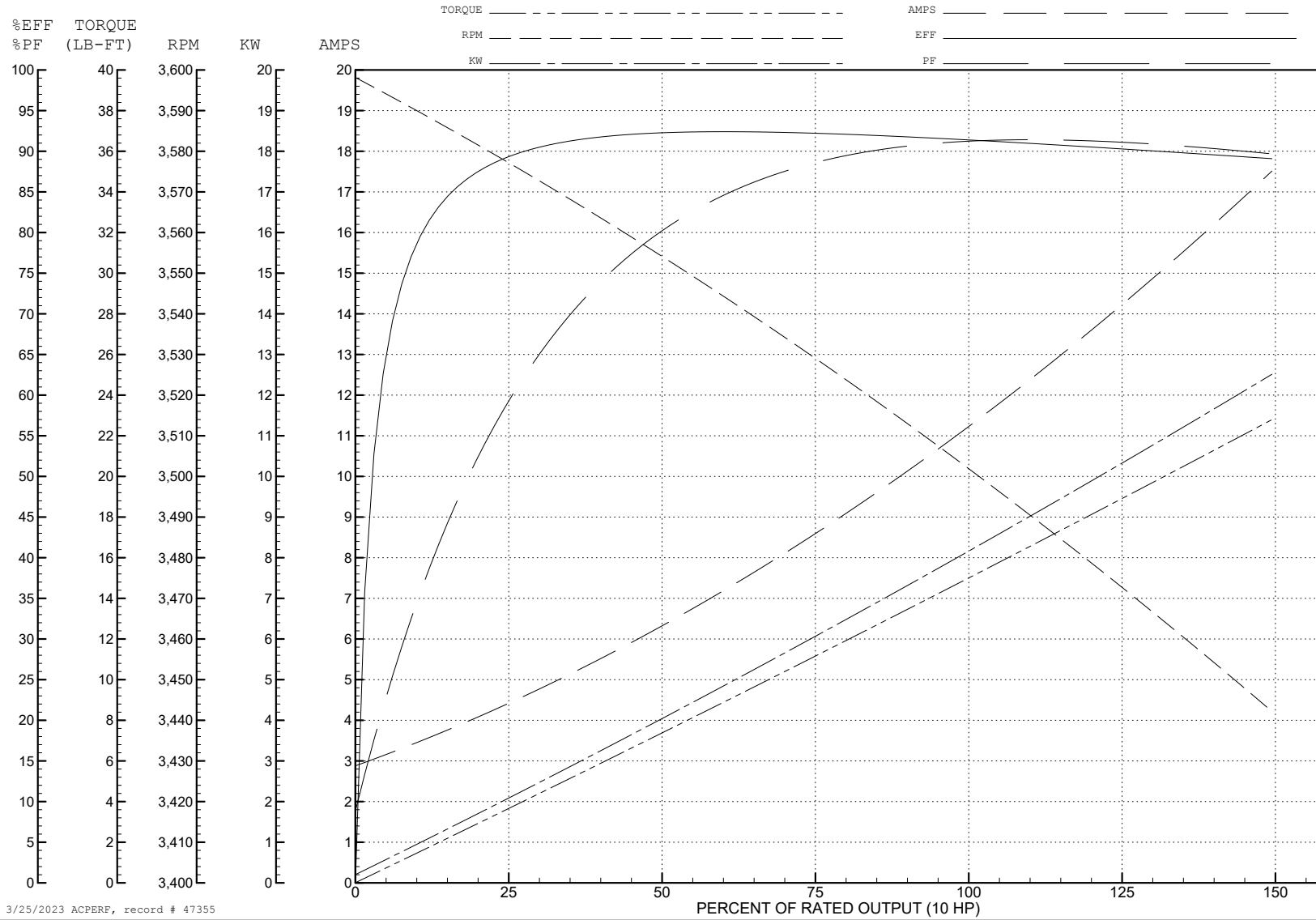
ABB Motors and Mechanical Inc.

WINDING # 07WGY930

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 0742M

TORQUES (LB-FT): PO=67.3 PU=22.4 LR=29 LRA=81



3/25/2023 ACPERF, record # 47355



**AC Induction Motor Performance Data**

Record # 65135

Typical performance - not guaranteed values

Winding: 07WGY930-R013		Type: 0742M		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>368 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	10	Full Load Torque	15.02 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	11.3	Breakdown Torque	42.64 LB-FT		
R.P.M.	3500	Pull-up Torque	14.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	18.36 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	64.41 A
Service Factor (S.F.)	1.15	No-load Current	2.43 A		
NEMA Nom. Eff.	91	Power Factor	91	Line-line Res. @ 25°C	0.791 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	66°C	
S.F. Amps			Temp. Rise @ S.F. Load	87°C	
			Locked-rotor Power Factor	30.1	
			Rotor inertia	0.383 LB-FT <sup>2</sup>	

**Load Characteristics 368 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	89	91	90	90	86	90
Efficiency	90.5	92.3	91.4	89.7	87.4	84.6	88.3
Speed	3565	3532	3495	3453	3401	3335	3422
Line amperes	4.09	7.1	10.43	14.25	18.44	23.94	16.8

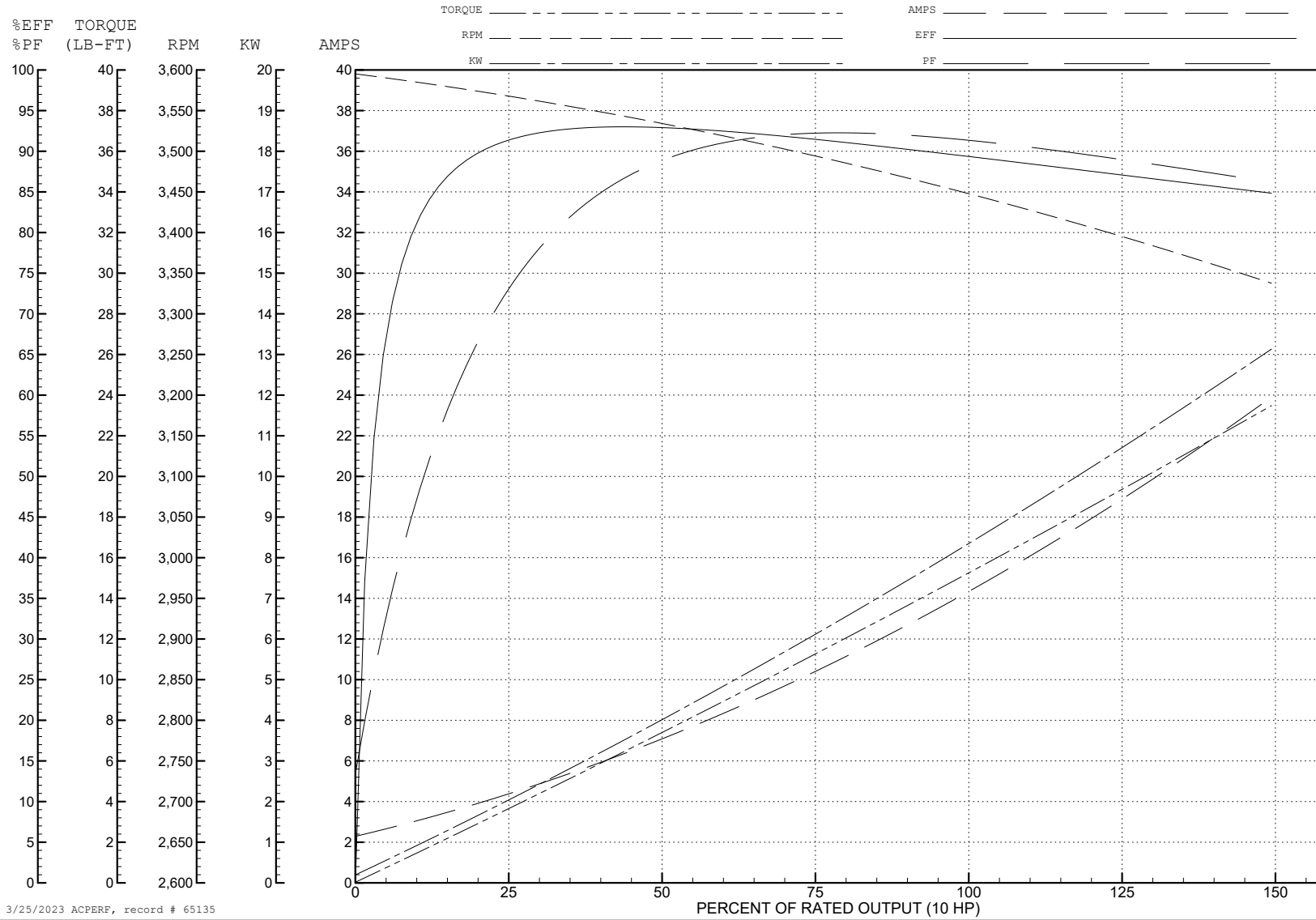
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WINDING # 07WGY930

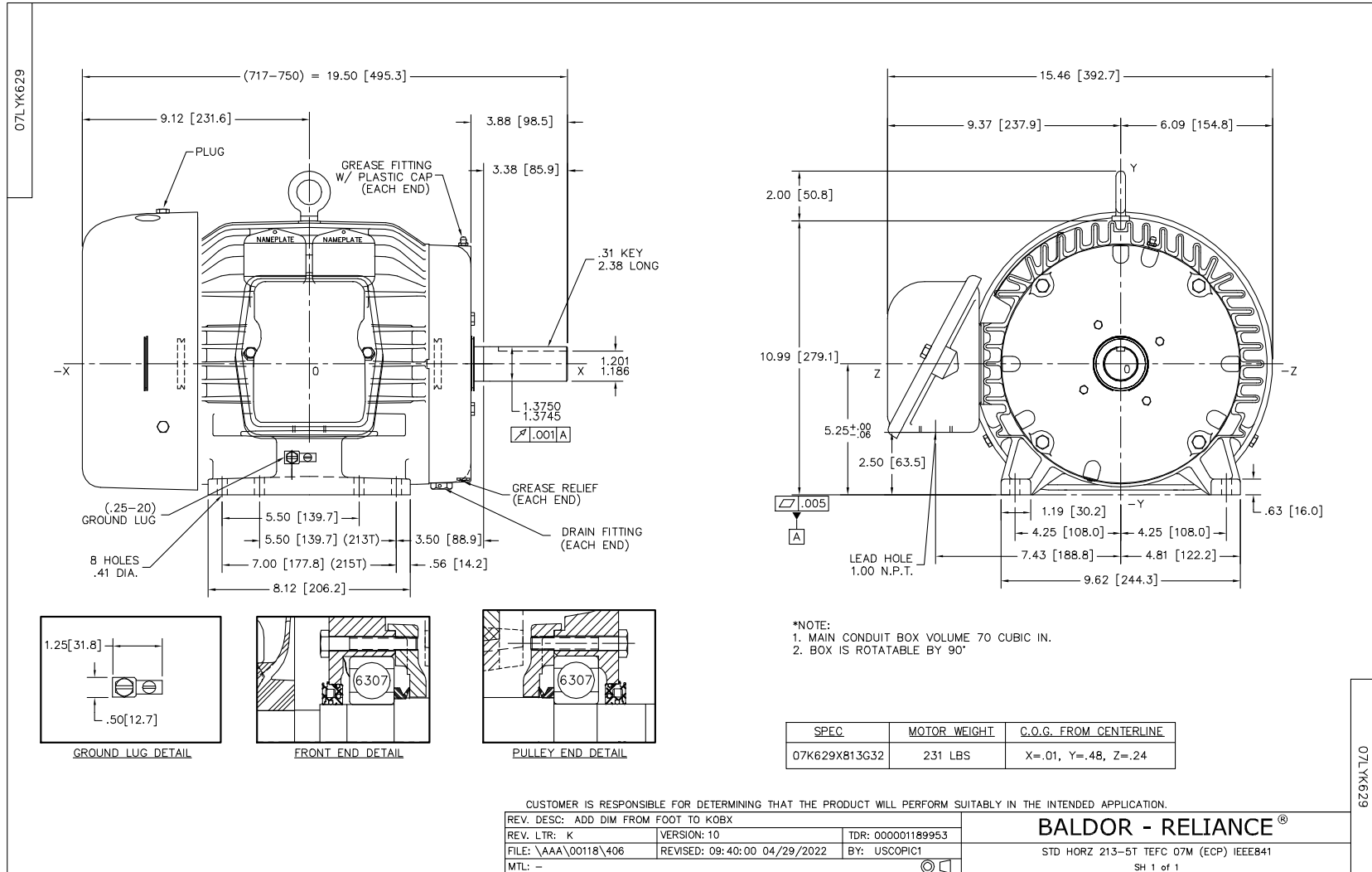
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 368 V 0742M

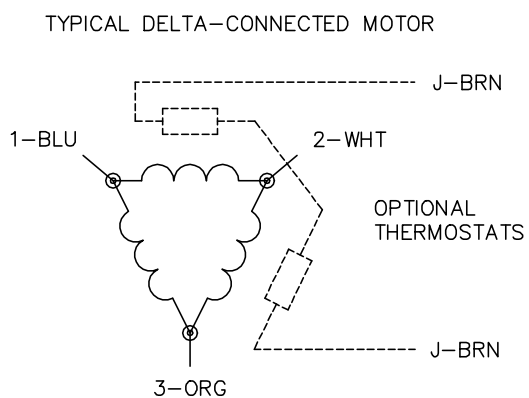
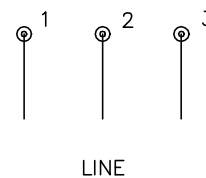
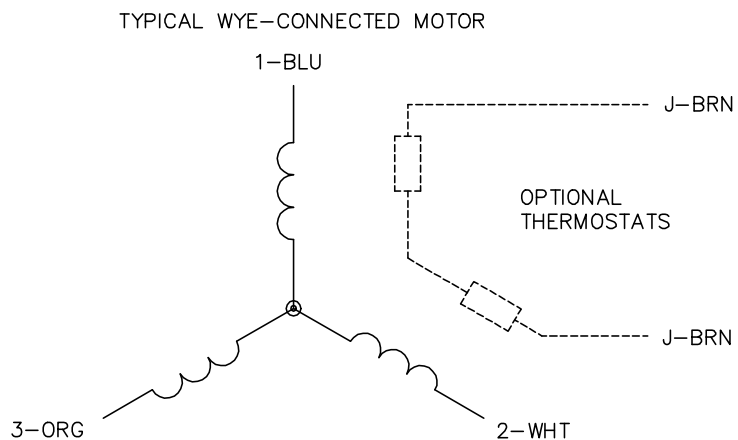
TORQUES (LB-FT): PO=42.64 PU=14.18 LR=18.36 LRA=64.41



3/25/2023 ACPERF, record # 65135



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
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**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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